



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA23633M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Applicant:	Weidmüller Interface GmbH & Co. KG
Manufacturer &	Weidmüller Interface GmbH & Co. KG
Place of Manufacturing:	Klingenbergstraße 16, D-32758 Detmold, Germany
	S C ZES Zollner Electronic SRL
	Parc Industrial SUD NR FN, 440247 Satu Mare, Romania
Product description:	U-Remote-Series (Module U-Remote System) / U-Control-Series
Model:	UR20-..., UC20-...
Approval No.:	19A002
Valid until:	9 January 2029

The details are described in the attached sheet(s).

Issued at Tokyo on 11 December 2023.

S. Oishi
General Manager
Machinery Department

Note: (1) The certificate has been issued by the addition of the components.

(2) The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

NIPPON KAIJI KYOKAI

Attached sheet -1/4 to the Certificate No. TA23633M

Specification & documents:

1. Particulars: Power supply: 24VDC

2. Components and reference drawings:

Module type	Order number	Model	Description	Hardware version
Fieldbus coupler	1334890000	UR20-FBC-CAN	CANopen	01.08.xx 01.09.xx
	1334940000	UR20-FBC-PL	Ethernet POWERLINK	01.05.xx 01.06.xx
	1334910000	UR20-FBC-EC	EtherCAT	02.04.xx 02.06.xx
	2476450000	UR20-FBC-MOD-TCP-V2	Modbus TCP	01.05.xx 01.06.xx
	1334920000	UR20-FBC-EIP	EtherNet/IP	02.03.xx 02.04.xx
	1550550000	UR20-FBC-EIP-V2	EtherNet/IP	01.00.xx 01.01.xx
	2566380000	UR20-FBC-PN-IRT-V2	PROFINET	01.00.xx 01.01.xx
	2614380000	UR20-FBC-PB-DP-V2	PROFIBUS	01.00.xx 01.01.xx
	2625010000	UR20-FBC-CC	CC-Link	01.00.xx 01.01.xx
	2680260000	UR20-FBC-CC-TSN	CC-Link	01.01.xx 01.02.xx
	2661310000	UR20-FBC-IEC61162-450	Ethernet	01.05.xx 01.06.xx
Digital I/O	1460140000	UR20-2DI-P-TS	2 digital inputs, P-switching, time stamp function	01.30.xx
	1315350000	UR20-4DI-N	4 digital inputs, N-switching	01.30.xx
	1315170000	UR20-4DI-P	4 digital inputs, P-switching	01.30.xx
	1460150000	UR20-4DI-P-TS	4 digital inputs, P-switching, time stamp function	01.30.xx
	2792150000	UR20-4DI-P-TS-V2	4 digital inputs, P-switching, time stamp function	01.02.xx
	1550070000	UR20-4DI-2W-230V-AC	4 digital inputs, 230V	01.31.xx
	2009360000	UR20-4DI-P-3W	4 digital inputs, P-switching	01.30.xx
	2464570000	UR20-4DI-4DO-PN-FSPS-V2	4 digital inputs, 4 digital outputs	01.13.xx 01.14.xx
	2464580000	UR20-4DI-4DO-PN-FSOE-V2	4 digital inputs, 4 digital outputs	01.13.xx 01.14.xx
	2464590000	UR20-8DI-PN-FSPS-V2	8 digital inputs	01.13.xx 01.14.xx
	2464600000	UR20-8DI-PN-FSOE-V2	8 digital inputs	01.12.xx 01.14.xx
	2456530000	UR20-8DIO-P-3W-DIAG	8 digital inputs, 8 digital outputs	01.10.xx
	1315370000	UR20-8DI-N-3W	8 digital inputs, N-switching	01.60.xx
	1315180000	UR20-8DI-P-2W	8 digital inputs, P-switching	01.10.xx
	1394400000	UR20-8DI-P-3W	8 digital inputs, P-switching	01.40.xx
	1315190000	UR20-8DI-P-3W-HD	8 digital inputs, P-switching	01.11.xx
	2457240000	UR20-8DI-ISO-2W	8 digital inputs, P or N-switching	01.02.xx
	1315210000	UR20-16DI-P-PLC-INT	16 digital inputs, P-switching, PLC connector	01.30.xx
	1315400000	UR20-16DI-N-PLC-INT	16 digital inputs, N-switching, PLC connector	01.30.xx
	1315200000	UR20-16DI-P	16 digital inputs, P-switching	01.40.xx
	1315390000	UR20-16DI-N	16 digital inputs, N-switching	01.40.xx
	1315410000	UR20-4DO-N	4 digital outputs, N-switching	01.11.xx
	1315420000	UR20-4DO-N-2A	4 digital outputs, N-switching	01.11.xx
	1315220000	UR20-4DO-P	4 digital outputs, P-switching	01.31.xx

- To be continued -

Module type	Order number	Model	Description	Hardware version
Digital I/O	1315230000	UR20-4DO-P-2A	4 digital outputs, P-switching	01.40.xx
	1509830000	UR20-8DO-P-2W-HD	8 digital outputs, P-switching	01.11.xx
	1394420000	UR20-4DO-PN-2A	4 digital outputs, P or N-switching	01.11.xx
	2457250000	UR20-4DO-ISO-4A	4 digital outputs, P or N-switching	01.53.xx
	1315430000	UR20-8DO-N	8 digital outputs, N-switching	01.21.xx
	1315240000	UR20-8DO-P	8 digital outputs, P-switching	01.61.xx
	1315250000	UR20-16DO-P	16 digital outputs, P-switching	01.92.xx
	1315440000	UR20-16DO-N	16 digital outputs, N-switching	01.21.xx
	1315270000	UR20-16DO-P-PLC-INT	16 digital outputs, P-switching, PLC connector	01.41.xx
	1315450000	UR20-16DO-N-PLC-INT	16 digital outputs, N-switching, PLC connector	01.21.xx
Analog I/O	2705620000	UR20-2AI-UI-16	2 analog inputs, 16 bit	01.40.xx
	2566090000	UR20-2AI-UI-16-DIAG	4 analog inputs, 16 bit, diagnostic	01.40.xx
	1394390000	UR20-4AI-UI-12	4 analog inputs, 12 bit	01.30.xx
	1315620000	UR20-4AI-UI-16	4 analog inputs, 16 bit	01.40.xx
	1315690000	UR20-4AI-UI-16-DIAG	4 analog inputs, 16 bit, diagnostic	01.40.xx
	1506910000	UR20-4AI-UI-16-DIAG-HD	4 analog inputs, 16 bit, diagnostic	01.10.xx
	1506920000	UR20-4AI-UI-16-HD	4 analog inputs, 16 bit	01.10.xx
	1993880000	UR20-4AI-UI-DIF-16-DIAG	4 analog inputs, 16 bit, diagnostic	01.30.xx
	2544660000	UR20-4AI-UI-DIF-32-DIAG	4 analog inputs, 32 bit, diagnostic	01.30.xx
	2566960000	UR20-4AI-UI-ISO-16-DIAG	4 analog inputs, 16 bit, diagnostic	00.60.xx
	2001670000	UR20-4AI-R-HS-16-DIAG	4 analog inputs, 16 bit, diagnostic	01.10.xx
	2617520000	UR20-4AI-I-HART-16-DIAG	4 analog inputs, 16 bit, diagnostic	01.10.xx
	1315700000	UR20-4AI-RTD-DIAG	4 temperature sensors, 16 bit, diagnostic	01.30.xx
	1315710000	UR20-4AI-TC-DIAG	4 temperature sensors, 16 bit, diagnostic	01.30.xx
	2456540000	UR20-4AI-RTD-HP-DIAG	4 temperature sensors, 16 bit, diagnostic	01.30.xx
	1315650000	UR20-8AI-I-16-HD	8 analog inputs, 16 bit	01.10.xx
	1315670000	UR20-8AI-I-PLC-INT	8 analog inputs, 16 bit	01.20.xx
	1315720000	UR20-8AI-I-16-DIAG-HD	8 analog inputs, 16 bit, diagnostic	01.10.xx
	2555940000	UR20-8AI-I-RTD-DIAG-2W	8 temperature sensors, 16 bit, diagnostic	01.10.xx
	2705630000	UR20-2AO-UI-16	2 analog outputs, 16bit	01.31.xx
	2566100000	UR20-2AO-UI-16-DIAG	2 analog outputs, 16bit, diagnostic	01.31.xx
	2566970000	UR20-2AO-UI-ISO-16-DIAG	2 analog outputs, 16bit, diagnostic	01.10.xx
	1315680000	UR20-4AO-UI-16	4 analog outputs, 16bit	01.31.xx
	1315730000	UR20-4AO-UI-16-DIAG	4 analog outputs, 16bit, diagnostic	01.31.xx
	2453880000	UR20-4AO-UI-16-M	4 analog outputs, 16bit	01.10.xx
	2453870000	UR20-4AO-UI-16-M-DIAG	4 analog outputs, 16bit, diagnostic	01.10.xx
AUX modules	1334770000	UR20-16AUX-I	Potential distribution, 16 connections, input path	01.02.xx
	1334780000	UR20-16AUX-O	Potential distribution, 16 connections, output path	01.01.xx
	1334800000	UR20-16AUX-GND-I	Potential distribution, 16 connections, input path	01.02.xx
	1334810000	UR20-16AUX-GND-O	Potential distribution, 16 connections, output path	01.02.xx
	1334790000	UR20-16AUX-FE	Pot. distribution, 16 connections, functional earth	01.02.xx
Digital modules	1315550000	UR20-4RO-CO-255	4 digital relay outputs	01.21.xx
	1315540000	UR20-4RO-SSR-255	4 digital outputs, semiconductor	01.31.xx
	1315570000	UR20-1CNT-100-1DO	1 channel, counter, 100kHz	01.01.xx
	1315580000	UR20-1CNT-500	1 channel, counter, 500kHz	01.11.xx
	1315590000	UR20-2CNT-100	2 channel, counter, 100kHz	01.02.xx
	1508080000	UR20-2FCNT-100	2 channel, frequency counter, 100kHz	01.02.xx
Interface modules	1315750000	UR20-1COM-232-485-422	1 serial interface, 115200 bps	01.20.xx
	2826800000	UR20-1COM-232-485-422-V2	1 serial interface, 230400 bps	01.00.xx
	2489840000	UR20-1COM-CANOPEN	CAN Bus	01.20.xx

- To be continued -

Module type	Order number	Model	Description	Hardware version
Interface modules	2007430000	UR20-1COM-SAI-PRO	1 serial interface	01.20.xx
	1315600000	UR20-2PWN-PN-0.5A	Pulse width module	01.11.xx
	1315610000	UR20-2PWN-PN-2A	Pulse width module	01.11.xx
	1508090000	UR20-1SSI	1 SSI encoder	01.11.xx
Power-feed modules	1334710000	UR20-PF-I	For input current path	01.31.xx
	1334740000	UR20-PF-O	For output current path	01.31.xx
Empty slot	1315770000	UR20-ES	Empty slot as reserve module	01.00.xx
Fieldbus controller	2674520000	UC20-SL2000-EC	u-control 2000 studio, Automation Controller with EtherCAT interface	01.23.xx
	2674620000	UC20-SL2000-EC-CAN	u-control 2000 studio, Automation Controller with EtherCAT and CAN interface	01.23.xx
	2708400000	UC20-SL2000-AC-EC	u-control 2000 studio, Automation Controller with EtherCAT interface	01.23.xx
	2655600000	UC20-SL2000-AC-EC-CAN	u-control 2000 studio, Automation Controller with EtherCAT and CAN interface	01.23.xx
	2638920000	UC20-SL2000-OLAC-EC	u-control 2000 studio, OpenLinux & Automation Controller with EtherCAT interface	01.23.xx
	2655590000	UC20-SL2000-OLAC-EC-CAN	u-control 2000 studio, OpenLinux & Automation Controller with EtherCAT with CAN IF	01.23.xx
	1334950000	UC20-WL2000-AC	u-control 2000 web, Automation Controller , Web based	01.23.xx
	2564970000	UC20-WL2000-AC-CAN	u-control 2000 web, Automation Controller , Web with CAN interface	01.23.xx
	1334990000	UC20-WL2000-IOT	u-control 2000 web, IoT Controller , Web based	01.23.xx

3. Documentation and Test Reports:

Weidmüller :

LAB20808E (2017-01-04), LAB20807E (2017-01-04), LAB20772E (2016-12-21),
 LAB21033E (2017-05-09), LAB20841E (2017-04-06), LAB21232E (2017-07-12),
 LAB21221E (2017-08-22), LAB21222E (2017-08-22), LAB21507E (2018-02-14),
 LAB21546E (2018-02-09), LAB22416E (2019-10-14), LAB22533E (2020-02-10),
 LAB22778E (2020-09-08), LAB22869E (2020-09-09), LAB22790E (2020-05-06),
 LAB23060E (2020-11-03), LAB23717E (2022-03-16), LAB23782E (2022-03-01),
 LAB24090E (2022-11-14), LAB24093E (2022-03-16), LAB24026E (2022-10-28),
 LAB20816E (2017-02-08), LAB24027E (2022-01-28), LAB24111E (2022-11-28),
 LAB24151E (2023-01-19)

RS Schwarze :

2016142a (10 Nov. 2016) (LAB20776E), 2016142c (14 Nov. 2016) (LAB20778E),
 2017013 (31 Jan. 2017) (LAB20987E), 2017074 (08 June 2017) (LAB21109E),
 2018010 (06 Feb. 2018) (LAB21552E), 2019160 (16 Jan. 2020), 2020044 (12 May 2020),
 2020043 (13 May 2020), 2021137 (08. Nov. 2021), 2022125 (27 Sept. 2022)

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.8 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature $70^{\circ}\text{C} \times 16$ hours)		X
Damp heat test		X
Vibration test (Acceleration $\pm 4g \times 1.5$ hours)		X
Inclination test		--
Cold test (Temperature $-25^{\circ}\text{C} \times 16$ hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

The product is not allowed to be installed on open decks.

- The End -